

IN THE CLAIMS:

Please amend the claims as follows.

Please cancel claims 46, 47, 62, and 63 without prejudice or disclaimer.

1. (Currently Amended) Method of deciding on ~~performing a~~ communication connection changeover of a subscriber terminal, said method (T1) ~~in a wireless communication network comprising: at least one access node (AP1, AP2, AP3), wherein said subscriber terminal is able to communicate with an access node in said wireless communication network;~~

~~said method comprising the steps of:~~

detecting communication information from ~~said~~ at least one access node, said communication information comprising frequency band information indicating at least one frequency band where said at least one access node is capable to communicate;

transmitting said communication information from said at least one access node to ~~said~~ a subscriber terminal by signaling;

processing the transmitted communication information and determining, based on the communication information, a communication connection capability of at least part of the at least one access node on the basis of the frequency band information; and

using the processing result for a decision on a communication connection changeover of the subscriber terminal.

2. (Currently Amended) The M method according to claim 1, wherein ~~said~~transmitting comprises sending the communication information across a wireless communication network is a WLAN, ~~preferably~~ based on an IEEE 802.11 standard.

3. (Currently Amended) The M method according to claim 2, wherein said at least one frequency band comprises a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

4. (Currently Amended) The M method according to claim 1, wherein said communication information further comprises a multiple band indicator related to at least part of the at least one access node.

5. (Currently Amended) The M method according to claim 1, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of at least part of the at least one access node.

6. (Currently Amended) The M method according to claim 1, wherein said communication information further comprises a frequency band coverage indicator related to frequency bands of neighboring access nodes of the transmitting access node in the wireless communication network.

7. (Currently Amended) The M method according to claim 1, wherein said ~~information in said~~ communication information comprises a frequency channel indicator for indicating the frequency channel used by at least part of the at least one access node at the respective frequency band.

8. (Currently Amended) The M method according to claim 1, wherein said processing step further comprises steps of :

detecting a signal strength indicator on a predetermined frequency band; and
comparing the detected signal strength indicator with a predefined threshold value,
wherein the result of the comparison indicates an estimation of the connection capability of an access node on another frequency band.

9. (Currently Amended) The M method according to claim 1, wherein the decision on a communication connection changeover is made by the subscriber terminal.

10. (Currently Amended) The M method according to claim 1, wherein a result of the decision on a communication connection changeover of the subscriber terminal ~~is~~comprises a change of the communication connection from the present frequency band to another frequency band which is common to the subscriber terminal and the access node associated with the subscriber terminal.

11. (Currently Amended) The M method according to claim 1, wherein a result of the decision on a communication connection changeover of the subscriber terminal iscomprises a change of the communication connection from ~~the~~ a current access node to a specific frequency band of a neighboring access node which is common to ~~the~~ a subscriber terminal and the neighboring access node to be associated with the subscriber terminal.

12. (Currently Amended) The M method according to claim 1, wherein communication information is transmitted from two or more access nodes in ~~the~~ a wireless communication network, and are processed in said processing step.

13. (Currently Amended) A S system for deciding on performing a communication connection changeover of a subscriber terminal, ~~-(T1) in a wireless communication network comprising at least one access node (AP1, AP2, AP3), wherein said subscriber terminal is able to communicate with at least one access node in said wireless communication network,~~

~~said system comprising:~~

detecting means for detecting and transmitting communication information from said at least one access node to ~~said~~ a subscriber terminal, said communication information comprising frequency band information indicating at least one frequency band where said at least one access node is capable to communicate, wherein said means

for detecting and transmitting the communication information of the at least one access node are ~~adapted~~configured to incorporate the communication information in a signaling to said subscriber terminal;

processing means for processing the transmitted communication information so as to determine based on the communication information a communication connection capability of at least part of the at least one access node on the basis of the frequency band information; and

deciding means for deciding on a communication connection changeover of the subscriber terminal by using the processing result.

14. (Currently Amended) The S system according to claim 13, wherein said communication connection is conducted over a wireless communication network that is a WLAN, ~~preferably~~ based on an IEEE 802.11 standard.

15. (Currently Amended) The S system according to claim 14, wherein said at least one frequency band comprises a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

16. (Currently Amended) The S system according to claim 13, wherein said communication information further comprises a multiple band indicator related to at least part of the at least one access node.

17. (Currently Amended) The S system according to claim 13, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of at least part of the at least one access node.

18. (Currently Amended) The S system according to claim 13, wherein said communication information further comprises a frequency band coverage indicator related to frequency bands of neighboring access nodes of the at least one access node in the wireless communication network.

19. (Currently Amended) The S system according to claim 13, wherein said communication information further comprises a frequency channel indicator for indicating the frequency channel used by the access node at ~~the~~ a respective frequency band.

20. (Currently Amended) The S system according to claim 13, further comprising second detecting means for detecting a signal strength indicator on a predetermined frequency band; wherein said processing means for processing are adapted to compare the detected signal strength indicator with a predefined threshold value, the result of the comparison indicating an estimation of the connection capability of an access node on another frequency band, and said deciding means for deciding on a communication connection changeover are ~~adapted~~ configured to use the result of said comparison.

21. (Currently Amended) The S system according to claim 13, wherein the deciding means for deciding on a communication connection changeover is located in the subscriber terminal.

22. (Currently Amended) The S system according to claim 13, wherein the deciding means for deciding on a communication connection changeover are adapted configured to decide to change the communication connection from the present frequency band to another frequency band which is common to the subscriber terminal and ~~the~~ an access node associated with the subscriber terminal.

23. (Currently Amended) The S system according to claim 13, wherein the deciding means for deciding on a communication connection changeover are adapted configured to decide to change the communication connection from the current access node to a specific frequency band of a neighboring access node which is common to the subscriber terminal and the neighboring access node to be associated with the subscriber terminal.

24. (Currently Amended) The S system according to claim 13, wherein the processing means for processing the transmitted communication information are adapted configured to process communication information transmitted from two or more access nodes in ~~the~~ a wireless communication network.

25. (Currently Amended) An access node for a wireless communication network, ~~said access node comprising:~~

~~means for detecting~~ device configured to detect and transmitting communication information to ~~said~~ a subscriber terminal, said communication information comprising frequency band information indicating at least one frequency band where at least one access node is capable to communicate, wherein said ~~means for detecting device and transmitting the communication information are adapted~~ is further configured to incorporate the communication information in a signaling to said subscriber terminal.

26. (Currently Amended) The A access node according to claim 25, wherein said wireless communication network is a WLAN, ~~preferably~~ based on an IEEE 802.11 standard.

27. (Currently Amended) The A access node according to claim 26, wherein said at least one frequency band comprises a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

28. (Currently Amended) The A access node according to claim 25, wherein said communication information further comprises a multiple band indicator related to an access node.

29. (Currently Amended) The A access node according to claim 25, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of an access node.

30. (Currently Amended) The A access node according to claim 25, wherein said communication information further comprises a frequency band coverage indicator related to frequency bands of neighboring access nodes of the access node in the wireless communication network.

31. (Currently Amended) The A access node according to claim 25, wherein said communication information further comprises a frequency channel indicator for indicating the frequency channel used by the access node at the respective frequency band.

32. (Currently Amended) A S subscriber terminal for communicating in a wireless communication network, ~~comprising at least one access node (AP1, AP2, AP3),~~
~~said subscriber terminal comprising:~~

~~means for~~ a receiving device configured to receive ~~ing~~ communication information transmitted from at least one access node, said communication information comprising frequency band information indicating at least one frequency band where at least one

access node is capable to communicate, and being transmitted from said at least one access node to said subscriber terminal by signaling;

~~means for~~ a processing device configured to ~~processing~~ the transmitted communication information so as to determine based on the communication information a communication connection capability of at least part of the at least one access node on the basis of the frequency band information; and

~~means for~~ a decision device configured to decide ~~ing~~ on a communication connection changeover of the subscriber terminal by using ~~the~~ a processing result.

33. (Currently Amended) The § subscriber terminal according to claim 32, wherein said wireless communication network is a WLAN, ~~preferably~~ based on an IEEE 802.11 standard.

34. (Currently Amended) The § subscriber terminal according to claim 33, wherein said at least one frequency band comprises a frequency band of 2.4 GHz and one or more frequency bands between 5 and 6 GHz.

35. (Currently Amended) The § subscriber terminal according to claim 32, wherein said ~~means for receiving device the communication information of the access node are adapted~~ is further configured to extract the communication information from a beacon packet broadcasted from the access node.

36. (Currently Amended) The § subscriber terminal according to claim 32, wherein said communication information further comprises a multiple band indicator related to at least part of the at least one access node.

37. (Currently Amended) The § subscriber terminal according to claim 32, wherein said communication information further comprises a traffic load indicator related to the at least one frequency band of at least part of the at least one transmitting access node.

38. (Currently Amended) The § subscriber terminal according to claim 32, wherein said communication information further comprises a frequency band coverage indicator related to frequency bands of neighboring access nodes of the transmitting access node in the wireless communication network.

39. (Currently Amended) The § subscriber terminal according to claim 32, wherein said communication information further comprises a frequency channel indicator for indicating the frequency channel used by the access node at the respective frequency band.

40. (Currently Amended) The § subscriber terminal according to claim 32, further comprising ~~means for a~~ detecting device configured to detecting a signal strength

indicator on a predetermined frequency band; wherein said ~~means for processing device~~
~~are adapted~~ is further configured to compare the detected signal strength indicator with a
predefined threshold value, the result of the comparison indicating an estimation of the
connection capability of an access node on another frequency band, and said decision
device ~~means for deciding on a communication connection changeover are adapted~~ are
configured to use the result of said comparison.

41. (Currently Amended) The § subscriber terminal according to claim 32,
wherein the decision device is further configured ~~means for deciding on a communication~~
~~connection changeover are adapted~~ to decide to change the communication connection
from the present frequency band to another frequency band which is common to the
subscriber terminal and the access node associated with the subscriber terminal.

42. (Currently Amended) The § subscriber terminal according to claim 32,
wherein the decision device is further configured ~~means for deciding on a communication~~
~~connection changeover are adapted~~ to decide to change the communication connection
from ~~the~~ a current access node to a specific frequency band of a neighboring access node
which is common to the subscriber terminal and ~~the~~ a neighboring access node to be
associated with the subscriber terminal.

43. (Currently Amended) The S subscriber terminal according to claim 32, wherein the processing device is further configured ~~means for processing the transmitted communication information are adapted~~ to process communication information transmitted from two or more access nodes in the wireless communication network.

44. (Currently Amended) A computer program embodied on a computer readable medium, that when executed by a processor, is configured to control a method comprising: ~~product for a computer, comprising software code portions for making, when said product is run on the computer, said computer to function as an access node in a wireless communication network,~~

~~said computer program product is configured to work as:~~

~~means for~~ detecting and transmitting communication information to a said subscriber terminal, said communication information comprising frequency band information indicating at least one frequency band where at least on access node is capable to communicate, and ~~wherein said means for detecting and transmitting the communication information are adapted to incorporating~~ e the communication information in a signaling to said subscriber terminal.

45. (Previously Presented) A computer program embodied on a computer readable medium, that when executed by a processor, is configured to control a method comprising: ~~product for a computer, comprising software code portions for making, when~~

~~said product is run on the computer, said computer to function as a subscriber terminal communicating in a wireless communication network comprising at least one access node,~~

~~said computer program product is configured to work as:~~

~~means for~~ receiving communication information transmitted from at least one access node, said communication information comprising frequency band information indicating at least one frequency band where at least one access node is capable to communicate, and being transmitted from at least one access node to a ~~said~~ subscriber terminal by signaling;

~~means for~~ processing the transmitted communication information ~~so as~~ to determine, based on the communication information, a communication connection capability of at least part of the at least one access node on the basis of the frequency band information; and

~~means for~~ deciding on a communication connection changeover of the subscriber terminal by using ~~the~~ a result of the processing result.

46. (Cancelled)

47. (Cancelled)

48. (Currently Amended) A M method usable in an access node entity for a decision procedure on performing a communication connection changeover of a subscriber terminal, comprising: in a wireless communication network comprising at least one access node, wherein said subscriber terminal is able to communicate with an access node in said wireless communication network,

~~said method comprising the steps of:~~

detecting communication information from ~~said~~ at least one access node, said communication information comprising frequency band information indicating at least one frequency band where said at least one access node is capable to communicate;

transmitting said communication information from said at least one access node to ~~said~~ a subscriber terminal by signaling.

49. (Currently Amended) A M method usable in a subscriber terminal entity for a changeover decision procedure, comprising: on of deciding on performing a communication connection changeover of a subscriber terminal in a wireless communication network comprising at least one access node, wherein said subscriber terminal is able to communicate with an access node in said wireless communication network,

~~said method comprising the steps of:~~

receiving communication information from ~~said~~ at least one access node in a wireless communication network, said communication information comprising frequency

band information indicating at least one frequency band where at least one access node is capable to communicate, by signaling;

processing the transmitted communication information and determining based on the communication information a communication connection capability of at least part of the at least one access node on the basis of the frequency band information; and

using the processing result for a decision on a communication connection changeover of ~~the~~ a subscriber terminal.

50. (Previously Presented) The method according to claim 1, wherein the signaling ~~by means of which the communication information is transmitted~~ comprises a transmission of one or more frames.

51. (Currently Amended) The method according to claim 1, wherein the signaling ~~by means of which the communication information is transmitted~~ comprises a Probe Request/Probe Response.

52. (Previously Presented) The method according to claim 4, wherein the multiple band indicator indicates at least one frequency band.

53. (Currently Amended) The system according to claim 13, wherein the signaling ~~by means of which the communication information is transmitted~~ comprises a transmission of one or more frames.

54. (Currently Amended) The system according to claim 13, wherein the signaling ~~by means of which the communication information is transmitted~~ comprises a Probe Request/Probe Response.

55. (Previously Presented) The system according to claim 16, wherein the multiple band indicator indicates at least one frequency band.

56. (Currently Amended) The access node according to claim 25, wherein the signaling ~~by means of which the communication information is transmitted~~ comprises a transmission of one or more frames.

57. (Currently Amended) The access node according to claim 25, wherein the signaling ~~by means of which the communication information is transmitted~~ comprises a Probe Request/Probe Response.

58. (Previously Presented) The access node according to claim 28, wherein the multiple band indicator indicates at least one frequency band.

59. (Currently Amended) The subscriber terminal according to claim 32, wherein the signaling ~~by means of which the communication information is received~~ comprises a transmission of one or more frames.

60. (Currently Amended) The subscriber terminal according to claim 32, wherein the signaling ~~by means of which the communication information is received~~ comprises a Probe Request/Probe Response.

61. (Previously Presented) The subscriber terminal according to claim 36, wherein the multiple band indicator indicates at least one frequency band.

62. (Cancelled)

63. (Cancelled)